## **CLAIMS**

## What is claimed is:

- 1. A method for treating chronic pain in a mammalian subject comprising the step of administering to a subject in need a therapeutically effective amount of a composition comprising a polypeptide that specifically binds CD11d.
  - 2. The method of claim 1 wherein the said polypeptide is an antibody.
- 3. The method of claim 1 wherein said polypeptide is a monoclonal antibody.
- 4. The method of claim 1 wherein said polypeptide is a monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593).
- 5. The method of claim 1 wherein the polypeptide comprises one, two and/or three complementarity determining region (CDR) of a light chain of monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593).
- 6. The method of claim 1 wherein the polypeptide comprises one, two and/or three complementarity determining region (CDR) of a heavy chain of monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture

Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593).

- 7. The method of claim 1 wherein the polypeptide comprises one, two and/or three complementarity determining regions (CDR) of a heavy chain of monoclonal antibody secreted by hybridoma 217L, 226H or 236L and one, two and/or three complementarity determining regions (CDR) of a light chain of monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593).
  - 8. The method of claim 1 wherein polypeptide recognizes an epitope on CD11d recognized by a monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593).
- 9. The method of claim 1 wherein the polypeptide competes with a monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593), for binding to CD11d.
- 10. The method of claim 1 wherein the polypeptide comprises one, two, three, four, five and/or six complementarity determining regions of a monoclonal antibody secreted by hybridoma 217L (American Type Culture Collection Accession No: HB-12701), hybridoma 226H (American Type Culture Collection Accession No: HB-12592) or hybridoma 236L (American Type Culture Collection Accession No: HB-12593), said polypeptide selected from the group consisting of a monoclonal

antibody, a polyclonal antibody, a single chain antibody, a chimeric antibody, a bifunctional/bispecific antibody, a humanized antibody, a human antibody, and a complementarity determining region (CDR)-grafted antibody and a peptibody.

- 11. The method of any one of claims 1 through 10 wherein the mammal is a human.
- 12. The method of any one of claims 1 through 10 wherein the chronic pain is selected from the group consisting of tactile allodynia, neuropathic pain, hyperalgesia, hyperpathia, and inflammatory pain.
  - 13. The method of claim 12 wherein the chronic pain is tactile allodynia.
- 14. The method of any one of claims 1 through 10 wherein the chronic pain results from central nervous system trauma or spinal cord injury.
- 15. The method according to any one of claims 1 through 10 wherein the spinal cord injury is compression of the spinal cord.
- 16. The method of any one of claims 1 through 10 wherein administration of the composition results in an increase in axon regeneration and/or growth.
- 17. The method of any one of claims 1 through 10 wherein administration of the composition results in an increase in myelin regeneration.
- 18. The method of any one of claims 1 through 10 wherein the composition further comprises a pharmaceutically acceptable diluent or carrier.

- 19. The method of any one of claims 1 through 10 wherein the composition is administered in conjunction with other pain relief medicine.
- 20. The method of claim 19 wherein the other pain relief medicine is selected from the group consisting of NSAIDs, analgesics, steroids, and anti-epileptic medicines.